

## NEW GENERATION FLATBED PRINTERS

### MORE POSSIBILITIES



## HandTop™ UV PRINTERS

- 1 Automatic negative pressure system**  
Using PCB board to control negative pressure, setting the negative pressure data from software.
- 2 Ricoh Gen5 Print Heads(one head with 2 colors)**  
Featuring variable dots, true grayscale imaging 7, 14, and 21pl.  
**Kyocera Print Heads(one head with 2 colors)**  
Featuring variable dots, true grayscale imaging 4, 6, and 10pl at true native 300 dpi.
- 3 UV-curing Lamps/LED(optional)**  
Instant curing of UV ink for fast production. Flexible to be controlled during printing.
- 4 Auto Height Detection System**  
Automatically detects height of media up to 100mm thickness and calibrates print head distance for variable dot placement.
- 5 Emergency Stop Switches**  
Stop operation from any corner when the printer is in emergency.
- 6 Power vacuum & Lamp Switch**  
Switches for vacuum table and lamps.
- 7 Mechanical Pin Registration System**  
Pin registration for accurate and consistent rigid media placement.
- 8 Reversible Vacuum Valve**  
Reverse the air vacuum for easier rigid media loading and unloading.
- 9 Reversible printing function & Repeat printing mode**  
Both reversible and repeat printing mode enables a higher efficiency in production.
- 10 Top Printing Speed:Up to 91m<sup>2</sup>/hr (HT3020)**  
Engineered for high-quality printing and outputs up to 91m<sup>2</sup>/hr with full bleed capacity.(HT3020 kyocera with double rows)
- 11 Static suppression(optional)**  
Optional static suppression kit that eliminates static on the substrate.
- 12 On Board Control Module**  
Rich functions, self-developed software, independent control module, efficient and convenient.

### Kyocera KJ4A Printhead

Nozzle quality : 2656  
 Physical Resolution : 2\*300dpi  
 Pico-litter : Variable 4-6-10pl  
 Max Operating Frequency : 30Khz  
 Effective Print Width : 112.35mm



### Ricoh Gen5 Printhead

Nozzle quality : 1280  
 Physical Resolution : 600dpi  
 Pico-litter : Variable 7-14-21pl  
 Max Operating Frequency : 30Khz  
 Effective Print Width : 54.1mm



## SPECIFICATIONS

| Model                  | HT1610UV   |                      |                      | HT2512UV                    |                      |                          | HT3020UV              |                      |                          | HT3116UV              |                      |                         |                       |
|------------------------|--|----------------------|----------------------|-----------------------------|----------------------|--------------------------|-----------------------|----------------------|--------------------------|-----------------------|----------------------|-------------------------|-----------------------|
| Printhead              | Ricoh Gen5   | Kyocera KJ4A         | Ricoh Gen5           | Kyocera KJ4A                |                      |                          | Ricoh Gen5            | Kyocera KJ4A         |                          | Ricoh Gen5            | Kyocera KJ4A         |                         |                       |
| Quantity of printheads | 2-4 pcs (Single row)   | 2-4 pcs (Single row) | 3-8 pcs (Single row) | 3-4 pcs (Single row)        | 4-8 pcs (Double row) | 10 pcs (symmetric array) | 4-8 pcs (Double row)  | 4-8 pcs (Double row) | 10 pcs (symmetric array) | 4-8 pcs (Double row)  | 4-8 pcs (Double row) | 10pcs (symmetric array) |                       |
| Resolution             | 1200*1200dpi   |                      |                      |                             |                      |                          |                       |                      |                          |                       |                      |                         |                       |
| Print speed            | Draft  | 20 m <sup>2</sup> /h | 36 m <sup>2</sup> /h | 42 m <sup>2</sup> /h        | 48 m <sup>2</sup> /h | 68 m <sup>2</sup> /h     | 100 m <sup>2</sup> /h | 54 m <sup>2</sup> /h | 95 m <sup>2</sup> /h     | 140 m <sup>2</sup> /h | 50 m <sup>2</sup> /h | 90 m <sup>2</sup> /h    | 130 m <sup>2</sup> /h |
|                        | Production   | 13 m <sup>2</sup> /h | 27 m <sup>2</sup> /h | 30 m <sup>2</sup> /h        | 33 m <sup>2</sup> /h | 53 m <sup>2</sup> /h     | 78 m <sup>2</sup> /h  | 38 m <sup>2</sup> /h | 70 m <sup>2</sup> /h     | 95 m <sup>2</sup> /h  | 36 m <sup>2</sup> /h | 66 m <sup>2</sup> /h    | 90 m <sup>2</sup> /h  |
|                        | Quality  | 9 m <sup>2</sup> /h  | 20 m <sup>2</sup> /h | 21 m <sup>2</sup> /h        | 23 m <sup>2</sup> /h | 40 m <sup>2</sup> /h     | 56 m <sup>2</sup> /h  | 27 m <sup>2</sup> /h | 53 m <sup>2</sup> /h     | 73 m <sup>2</sup> /h  | 25 m <sup>2</sup> /h | 51 m <sup>2</sup> /h    | 70 m <sup>2</sup> /h  |
| Print mode             | UNIDIRECTIONAL & BIDIRECTIONAL   |                      |                      |                             |                      |                          |                       |                      |                          |                       |                      |                         |                       |
| Max width              | * 1.6m   |                      |                      | 2.5m * 1.22m                |                      |                          | 3.05m * 2.05m         |                      |                          | 3.05m * 1.5m          |                      |                         |                       |
| Max media thickness    | 100mm  |                      |                      |                             |                      |                          |                       |                      |                          |                       |                      |                         |                       |
| Media type             | Rigid and flexible flat materials  |                      |                      |                             |                      |                          |                       |                      |                          |                       |                      |                         |                       |
| Ink                    | Environmental friendly UV curable ink(VOC free)  |                      |                      |                             |                      |                          |                       |                      |                          |                       |                      |                         |                       |
| Ink color              | C / M / Y / K / Lc / Lm / W (VARNISH IS OPTIONAL WHEN THERE IS NO Lc & Lm)   |                      |                      | C / M / Y / K / Lc / Lm / W |                      |                          |                       |                      |                          |                       |                      |                         |                       |
| Image format           | Adobe Postscript Level3 PDF JPEG TIFF EPS AI   |                      |                      |                             |                      |                          |                       |                      |                          |                       |                      |                         |                       |
| Machine size(L*W*H)    | 3.44m * 2.21m * 1.28m  |                      |                      | 4.67m * 2.51m * 1.38m       |                      |                          | 5.22m * 3.24m * 1.38m |                      |                          | 5.22m * 2.71m * 1.38m |                      |                         |                       |
| Machine net weight     | 570KG  |                      |                      | 1150KG                      |                      |                          | 1520KG                |                      |                          | 1450KG                |                      |                         |                       |
| Machine gross weight   | 990KG  |                      |                      | 1745KG                      |                      |                          | 2330KG                |                      |                          | 2160KG                |                      |                         |                       |
| Power consumption      | 5.3KW(27A)   |                      |                      | 8.3KW(20A)                  |                      |                          |                       |                      |                          |                       |                      |                         |                       |
| Power supply           | 230VAC.50Hz L/N/PE   |                      |                      | 400VAC.50Hz 3P/N/PE         |                      |                          |                       |                      |                          |                       |                      |                         |                       |
| Certification          | CE, FCC  |                      |                      |                             |                      |                          |                       |                      |                          |                       |                      |                         |                       |
| RIP support            | ONYX, CALDERA (RICOH GEN5 SEEGET RIP OPTIONAL)   |                      |                      |                             |                      |                          |                       |                      |                          |                       |                      |                         |                       |
| UV Curing              | MERCURY VAPOR UV LAMPS , LED(OPTIONAL)   |                      |                      |                             |                      |                          |                       |                      |                          |                       |                      |                         |                       |
| Interface              | High Speed PCIE  |                      |                      |                             |                      |                          |                       |                      |                          |                       |                      |                         |                       |
| Environment            | Separated workroom in good cleaning and ventilated condition, avoid direct sunlight<br>Temperature: 18°C - 30°C(64°F-86°F)<br>Constant Humidity: 30%-70% |                      |                      |                             |                      |                          |                       |                      |                          |                       |                      |                         |                       |



Please note that visuals and manufacture specifications are subject to change without prior notice, (T's & C's Apply)  
 For the latest update on all products and services contact your local Clear Solutions dealer or visit us: [www.clearsol.co.za](http://www.clearsol.co.za)

"CHOOSE THE BETTER SOLUTION"

[www.clearsol.co.za](http://www.clearsol.co.za) | [sales@clearsol.co.za](mailto:sales@clearsol.co.za)

## HandTop™ UV PRINTERS

+27 21 913 0829

[sales@clearsol.co.za](mailto:sales@clearsol.co.za) [www.clearsol.co.za](http://www.clearsol.co.za)

Unit D46 Icon Business Park Fourie Str., Brackenfell